Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	10/20/2016 10/20/2016	Maksim Khashchuk

		Dating **	N 4	Issue No.			_
LM Start		Rating **	M	Issue No. 5			
LM End		Issue Type +	Ма	Location *		N/A	
Category	Earthen L	evee		GPS La	atitud	e/Longitude	
		Start		End			
Item	Flood Pre	paredness &	Training		0		0
					0		0
DWR ID DWR_RD2031_01_s _ 2013_5							
Comment Code							
		Inspecto	or Comm	ent			
LMA has a	flood resp	onse plan.					

No Photos

LM Start		Rating **	Α	Issue No.		6			
LM End		Issue Type +	Ма	Location *	N/A				
Category	Earthen Levee			GPS La	titud	e/Longitude			
Calegory		Start		End					
Item		y Supplies &			0		0		
пеш	Equipmen	quipment			0		0		
DWR ID	3_6								
	Comment Cod								
Inspector Comment									
Supplies a	vailable or	n-site.							

No Photos

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence En: Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	10/20/2016 10/20/2016	Maksim Khashchuk

LM Start		Rating **	Α	Issue No.		12	_		
LM End		Issue Type +	Ма	Location *		N/A			
Catagory	Earthen Levee			GPS La	atitude	e/Longitude			
Category			Start		End				
Item		s & Maintena	nce		0		0		
Manuals				0		0			
DWR ID DWR_RD2031_01_s _ 2013_12									
Comment Code									
		Inspecto	or Comm	nent					
O&M Manı	ual availab	le at the office	Э.						

No Photos

LM Start 0.07 Rating ** Μ Issue No. 31 Issue Type + Location * LS 0.15 Ma LM End Earthen Levee GPS Latitude/Longitude Category End Vegetation 37.709915° 37.708707° Item -121.156548° -121.156764 ° DWR ID DWR RD2031 01 f 2016 31 Comment Code V1: Control annual grass and weeds on the levee slopes and easements. Inspector Comment

Photo 1 of 1: FA_2016_RD2031_307_31_20161024_00088.jpg



View of the vegetation on the landside levee slope.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	10/20/2016 10/20/2016	Maksim Khashchuk

LM Start	0.17	Rating **	М	Issue No.	32			
LM End	0.41	Issue Type +	Ma	Location *	WS			
Category	Earthen L	evee		GPS L	atitud	e/Longitude		
Calegory	gory					End		
Item	Vegetation			37.7083	350°	37.705155°		
item				-121.156856 °		-121.158451 °		
DWR ID	WR ID DWR_RD2031_01_f _ 2016_32							
		Comn	nent Cod	de				
V1 : Control annual grass and weeds on the levee slopes and easements.								
Inspector Comment								



View of the vegetation on the waterside levee slope. Looking downstream.

LM Start	0.45 Rating **		М	Issue No.		1
LM End	0.48 Issue Type + Ma		Location *		WS	
Category	Suppleme	ental		GPS La	atitud	e/Longitude
Calegory				Start		End
Item	DWR Ero	sion Survey		37.7047	40°	37.704740°
item				-121.1591	40°	-121.159140°
DWR ID						*

Inspector Comment

Comment Code

07/25/2016: No significant change observed.

08/28/2015: No significant change observed.

07/31/2014: No significant change observed.

09/10/2013: No significant change observed.

07/18/2012: No significant change observed.

08/18/2011: No significant change observed on site. Debris that blocks the irrigation outlet is visible.

10/19/2010: No significant change observed on site. Sloughing of the bank is occurring adjacent to an irrigation outlet structure. There is moderate to heavy vegetation along the bank that is well established. Broken chunks and slabs of concrete are used as rip rap and line the outside of the irrigation outlet structure. However, much of the rip rap along the slope is sloughing and could possibly lead to future slope instability.

08/05/2010: Recommended as a local maintenance issue, per CLRO. 08/20/2009: No major change observed since last visit; 1 inch fissure cracks developing on the slope; rip rap is showing signs of sloughing; recommend as local maintenance issue; site was previously rated "U". 2008: No change from previous year; irrigation outlet located on site; rip rap placed on river bank.

09/06/2007: Near agricultural diversion; only 3' landside height differential. [2016 Site ID:RD2031U01RM0.48]

Photo 1 of 2: SJR2016_RD2031U01RM0.48_1.jpg



Direct view of the site.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	10/20/2016 10/20/2016	Maksim Khashchuk

LM Start	0.45 Rating **		М	Issue No.		1 (cont)
LM End	0.48 Issue Type + Ma Locatio		Location *		WS	
Category	Suppleme	ental		GPS La	atitud	le/Longitude
Calegory				Start		End
Item	DWR Ero	sion Survey		37.7047	40°	37.704740°
item				-121.1591	40°	-121.159140°
DWR ID						

Comment Code

Inspector Comment

07/25/2016: No significant change observed. 08/28/2015: No significant change observed. 07/31/2014: No significant change observed.

09/10/2013: No significant change observed.

07/18/2012: No significant change observed.

08/18/2011: No significant change observed on site. Debris that blocks the irrigation outlet is visible.

10/19/2010: No significant change observed on site. Sloughing of the bank is occurring adjacent to an irrigation outlet structure. There is moderate to heavy vegetation along the bank that is well established. Broken chunks and slabs of concrete are used as rip rap and line the outside of the irrigation outlet structure. However, much of the rip rap along the slope is sloughing and could possibly lead to future slope instability.

08/05/2010: Recommended as a local maintenance issue, per CLRO. 08/20/2009: No major change observed since last visit; 1 inch fissure cracks developing on the slope; rip rap is showing signs of sloughing; recommend as local maintenance issue; site was previously rated "U". 2008: No change from previous year; irrigation outlet located on site; rip rap placed on river bank.

09/06/2007: Near agricultural diversion; only 3' landside height differential. [2016 Site ID:RD2031U01RM0.48]

Photo 2 of 2 : SJR2016_RD2031U01RM0.48_3.jpg
"一个",不是一个"一个"
THE RESERVE TO THE PARTY OF THE

View of the current condition of the bank slope just above the irrigation outlet.

	LM Start	0.48	Rating **	M	Issue No.		2	
	LM End	0.51	Issue Type +	Ma	Location *		WS	
	Category	Earthen L	evee	GPS Latitude/Longitude				
					Start		End	
	Item	Vegetatio	n		37.7043	85°	37.704050	0
					-121.1592	17°	-121.159578	0
	DWR ID	DWR RD2	031 01 s 201	2 2				

Comment Code V2: Remove the wild growth other than native grasses from the levee slopes

Inspector Comment

Remove vegetation 20 feet away from the levee crown.

Photo 1 of 3: FA_2016_RD2031_307_2_20161024_00087.jpg



View of the large tree branch on the waterside levee slope. Fall 2016

Location + Issue Type LS: Land Side N/A: Not Applicable Acceptable N : Not Inspected/Rated Ma: Maintenance Deficiancy Minimally Acceptable Ob : Design & System Obsolescence WS: Water Side C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain En: Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	10/20/2016 10/20/2016	Maksim Khashchuk

Item 5	LM Start	0.48	Rating **	М	Issue No.		2 (cont)	
Category Start End Item 37.704385 37.70405 -121.159217 -121.15957 DWR ID DWR_RD2031_01_s _ 2012_2 Comment Code V2 : Remove the wild growth other than native grasses from the levee slopes. Inspector Comment	LM End	0.51	Issue Type +	Ma	Location *		WS	
Start End	Catagory	Earthen L	evee		GPS La	atitud	e/Longitude	
DWR ID DWR_RD2031_01_s _ 2012_2 Comment Code V2 : Remove the wild growth other than native grasses from the levee slopes. Inspector Comment	Calegory				Start		End	
DWR_RD2031_01_s _ 2012_2 Comment Code V2 : Remove the wild growth other than native grasses from the levee slopes. Inspector Comment	Itom	Vegetatio	n		37.7043	85°	37.704050°	
Comment Code V2 : Remove the wild growth other than native grasses from the levee slopes. Inspector Comment	item				-121.1592	17°	-121.159578°	
V2 : Remove the wild growth other than native grasses from the levee slopes. Inspector Comment	DWR ID DWR_RD2031_01_s _ 2012_2							
slopes. Inspector Comment			Comn	nent Cod	de			
•								
Remove vegetation 20 feet away from the levee crown.	Inspector Comment							
	Remove vegetation 20 feet away from the levee crown.							

			li .	Subs.
12			B	
		A SALE		
	TOWN.		10/2	3/2012 10:35

Photo 2 of 3: FA_2016_RD2031_307_2_20160914_00004.jpg

View of vegetation on waterside slope. Facing upstream.

 LM Start
 0.48
 Rating **
 M
 Issue No.
 2 (cont)

 LM End
 0.51
 Issue Type +
 Ma
 Location *
 WS

Photo 3 of 3: FA_2016_RD2031_307_2_20160914_00005.jpg



10/26/2011 Updated photo of waterside vegetation.

LM Start	0.77	Rating **	М	Issue No.		36	
LM End	0.77	Issue Type +	Ма	Location *		LS	
Category	Earthen L	evee		GPS L	atitud	e/Longitude	
Calegory				Start		End	
Item	Animal Co	ontrol		37.7011	77°	37.701177°	
item			-121.1620)55 °	-121.162055 °		
DWR ID DWR_RD2031_01_f _ 2012_36							
Comment Code							
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.							
		Inspecto	or Comm	nent			



View of rodent burrows on landside slope.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	10/20/2016 10/20/2016	Maksim Khashchuk

LM Start	0.84	Rating **	М	Issue No.		42	
LM End	0.84	Issue Type +	Ma	Location *		LS	
Category	Earthen L	evee		GPS La	atitud	le/Longitude	
Category				Start		End	
Item	Erosion /	Bank Caving		37.7004	47°	37.700447°	
пеш				-121.162742 °		-121.162742 °	
DWR ID DWR_RD2031_01_f _ 2016_42							
Comment Code							
E2 : Sched	dule repair	of erosion site	e prior to	the next in	spe	ction.	
		Inspecto	or Comm	ent			



View of the erosion of the landside levee slope.

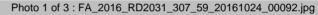
LM Start	1.00	Rating **	Issue No.		59			
LM End	1.00	Issue Type +	Ма	Location *	LS			
Category Earthen Levee				GPS Latitude/Longitude				
				Start		End		
ltom	Animal Co	ontrol		37.6993	27°	37.699327°		
Item -121.1						-121.165364°		
DWR ID DWR_RD2031_01_f _ 2014_59								
Comment Code								

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

Some of the rodent holes have collapsed.

LM Start	1.00	Rating **	М	Issue No.	59 (cont)
LM End	1.00	Issue Type +	Ma	Location *	LS





View of the rodent holes on the landside levee slope.

Photo 2 of 3: FA_2016_RD2031_307_59_20160914_00036.jpg



Another view of the rodent hole on the landside levee slope.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	10/20/2016 10/20/2016	Maksim Khashchuk

LM Start	1.00	Rating **	М	Issue No.	59 (cont)			
LM End	1.00	Issue Type +	Ma	Location *	LS			
Category	Earthen L	evee		GPS La	atituc	de/Longitude		
Category				Start		End		
Item	Animal Co	ontrol		37.6993	27°	37.699327°		
пеш	item			-121.165364°		-121.165364°		
DWR ID	DWR_RD2	031_01_f _ 201	4_59					
		Comn	nent Cod	de				
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.								
Inspector Comment								
Some of the	ne rodent h	oles have col	lapsed.					



View of the multiple rodent holes on the landside levee slope.

LM Start	1.16	Rating **	М	Issue No.		44	
LM End	1.16	Issue Type +	Ма	Location *		LS	
Catagory	Earthen Levee			GPS Latitude/Longitude			
Category				Start		End	
Item	Animal Control			37.6988	48°	37.698848°	
пеш				-121.1680	88 °	-121.168088°	
DWR ID DWR_RD2031_01_f _ 2016_44							
On the section of the							

Comment Code

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment



View of the rodent holes on the landside levee slope.

LM Start	1.49	Rating **	С	Issue No.		54
LM End	1.49	Issue Type +	Ma	Location *		WS
Category	Earthen L	GPS Latitude/Longitude				
Category	Category					End
Item	Animal Co	Animal Control				37.699554 °
item				-121.17341	7°	-121.173417 [°]
DWR ID	DWR_RD2031_01_f _ 2015_54					

Comment Code

A1: Exterminate rodents and backfill and compact or grout burrows.

Inspector Comment

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiancy
WS: Water Side	M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence
CR · Crown	U · Unacceptable	A/W · Acceptable but Monitor & Maintain	En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	10/20/2016 10/20/2016	Maksim Khashchuk

-								
LM Start	1.56	Rating **	U	Issue No.		3		
LM End	1.56	Issue Type +	Ma	Location *	LS			
Earthen Levee				GPS La	atitud	le/Longitude		
Category				Start		End		
Item	Erosion / I	Bank Caving		37.6987	76°	37.698776°		
пеш				-121.1743	27°	-121.174327°		
DWR ID DWR_RD2031_01_s _ 2012_3								
	Comment Code							
E1 : Note a	and monito	or erosion site						
		Inspecto	or Comm	nent				
Erosion is active around the irrigation standpipe.								

LM Start	1.56	Rating **	U	Issue No.	3 (cont)
LM End	1.56	Issue Type +	Ma	Location *	LS



View of the erosion site on landside slope, facing upstream.

Photo 2 of 2: FA 2016 RD2031 307 3 20160914 00007.jpg



10/26/2011 Active erosion into the levee prism around irrigation standpipe.

N: Not Inspected/Rated C: Corrected A/W: Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence
En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	10/20/2016 10/20/2016	Maksim Khashchuk

LM Start	1.58	Rating **	U	Issue No.		8	
LM End	1.58	Issue Type +	Ма	Location *	WS		
Category	Earthen L	evee		GPS La	atitud	e/Longitude	
Calegory				Start		End	
Item	Erosion / I	Bank Caving		37.6986	10°	37.698610°	
item				-121.1745	98°	-121.174598°	
DWR ID DWR_RD2031_01_s _ 2012_8							
		Comn	nent Cod	le			
E1 : Note	and monito	or erosion site					
		Inspecto	or Comm	ent			
Active ero	sion is occ	urring around	irrigation	n inlet.			
ů ů							



10/26/2011 Active erosion shown around irrigation inlet.

LM Start	1.62	Rating **	М	Issue No.		52
LM End	1.62	Issue Type +	Ma	Location *		WS
Catagory	evee	GPS Latitude/Longitude				
Category				Start		End
Item	Animal Co		37.6983	34°	37.698334°	
пеш				-121.1751	76°	-121.175176°
DWR ID	DWR_RD2031_01_f _ 2013_52					

Comment Code

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

LMA is actively controlling rodents. This area is heavily active and should be addressed more aggressively.

Photo 1 of 1: FA	_2016_RD2031	_307_52_	20161024	_00094.jpg
------------------	--------------	----------	----------	------------



View of the active rodent hole on the levee slope. Fall 2016

LM Start	1.63	Rating **	U	Issue No.		9		
LM End	1.63	Issue Type +	/pe + Ma Location		LS			
Category	evee	GPS Lati	tud	e/Longitude				
Category				Start		End		
Item	Erosion /	Bank Caving		37.69820	3°	37.698208 °		
пеш				-121.17540	o°	-121.175400 °		
DWR ID	DWR ID DWR_RD2031_01_s _ 2012_9							
	Comment Code							

E1: Note and monitor erosion site.

Inspector Comment

Active erosion around irrigation inlet in levee prism.



10/26/2011 Active erosion into levee prism around irrigation inlet.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	10/20/2016 10/20/2016	Maksim Khashchuk

LM Start	1.84	Rating **	U	Issue No.		29	
LM End	1.84	Issue Type +	Ма	Location *	LS		
Catagory	Earthen L	evee		GPS L	atitud	e/Longitude	
Category				Start		End	
Item	Vegetatio	n		37.6961	21 °	37.696121°	
item				-121.177532 °		-121.177532°	
DWR ID DWR_RD2031_01_s _ 2016_29							
Comment Code							
V2 : Remove the wild growth other than native grasses from the levee slopes.							
Inspector Comment							



View of the tall vegetation on the landside levee slope.

LM Start	2.00	Rating **	С	Issue No.		38	
LM End	2.07	Issue Type +	Ma	Location *	CR		
Category	Earthen L	71	IVIG	GPS Latitude/Longitude			
Calegory				Start		End	
Item	Crown Su	rface / Depres	ssions /	37.6937	'20 °	37.692782°	
пеш	Rutting			-121.1775	27°	-121.177642°	
DWR ID DWR_RD2031_01_s _ 2012_38						,	
		Comn	nent Cod	de			
C2 : Repai	ir depressi	ons or ruts in	the crow	n or slope.			
Inspector Comment							

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	10/20/2016 10/20/2016	Maksim Khashchuk

LM Start	2.05	Rating **	М	Issue No.		46
LM End	2.05	Issue Type +	Ma	Location *		WS
Category	Earthen L	evee		GPS L	atitud	e/Longitude
Calegory				Start		End
Item	Encroach	ments		37.6929	93°	37.692993°
пеш				-121.1775	26°	-121.177526°
DWR ID DWR_RD2031_01_f _ 2016_46						
Comment Code						
TR : Tree	or limb					
Inspector Comment						



View of the broken tree limb on the waterside levee slope.

LM Start	2.14	2.14 Rating ** M				47		
LM End	2.14	Issue Type +	Ма	Location *		WS		
Category	Earthen Levee			GPS Latitude/Longitude				
Calegory				Start		End		
Item	Animal Control			37.6918	87°	37.691887°		
item				-121.1781	27°	-121.178127°		
DWR ID DWR_RD2031_01_f _ 2016_47								
	0							

Comment Code

A1 : Exterminate rodents and backfill and compact or grout burrows.

Inspector Comment

Photo 1 of 1 : FA_2016_RD2031_307_47_20161024_00096.jpg



View of the rodent holes on the waterside levee slope.

Photo 1 of 3: FA_2016_RD2031_307_33_20160914_00017.jpg

LM Start	3.74	3.74 Rating ** U				33
LM End	4.25	4.25 Issue Type + Ma		Location *		LS
Category	Earthen L	GPS La	titud	e/Longitude		
Category				Start		End
Item	Vegetatio	Vegetation			57°	37.687689°
пеш				-121.19974	16°	-121.205726°
DWR ID	DWR_RD2	6_33			:	

Comment Code
V2 : Remove the wild growth other than native grasses from the levee slopes.

Inspector Comment

Trim back woody vegetation at least 15 feet away from the landside levee toe.



View of the tall vegetation on the landside levee slope and toe.

* Location
LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown

** Rating

A: Acceptable N: Not Inspected/Rated M: Minimally Acceptable C: Corrected Ob: Design & System Obsolescence C: Enforcement

* Issue Type

Ma: Maintenance Deficiancy Ob: Design & System Obsolescence En: Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	10/20/2016 10/20/2016	Maksim Khashchuk

LM Start	3.74	Rating **	U	Issue No.		33 (cont)		
LM End	4.25	4.25 Issue Type + Ma				LS		
Category	Earthen L	evee	GPS La	atitud	e/Longitude			
Calegory				Start		End		
Item	Vegetatio	37.6898	57°	37.687689°				
item				-121.1997	46 °	-121.205726°		
DWR ID	DWR ID DWR_RD2031_01_f _ 2016_33					·		
	Commont Codo							

V2 : Remove the wild growth other than native grasses from the levee slopes.

Inspector Comment

Trim back woody vegetation at least 15 feet away from the landside levee toe.

LM Start	3.74	Rating **	U	Issue No.	33 (cont)
LM End	4.25	Issue Type +	Ma	Location *	LS



Typical view of the tall vegetation on the landside levee slope and toe in this area.

Photo 3 of 3: FA_2016_RD2031_307_33_20160914_00019.jpg



Another view of the tall vegetation on the landside levee slope and toe.

LM Start	3.78	Rating **	M	Issue No.		57
LM End	3.81	Issue Type +	Ма	Location *		LS
Category	Earthen L	evee		GPS La	atitud	e/Longitude
Category				Start		End
Item	Erosion /	Bank Caving		37.6903	02°	37.690664°
item				-121.2002	32°	-121.200549°
DWR ID	DWR ID DWR_RD2031_01_f _ 2015_57					
		Comn	nent Cod	de		
E2 : Sched	dule repair	of erosion site	e prior to	the next in	spec	tion.
			_			
Inspector Comment						
Erosion at the landside levee toe.						



View of the 18 inch vertical cut at the landside levee toe.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	10/20/2016 10/20/2016	Maksim Khashchuk

LM Start	4.52	Rating **	U	Issue No.	43			
LM End	4.52	Issue Type +	Ma	Location *		LS		
Catagony	Earthen L	evee		GPS La	atitud	le/Longitude		
Category				Start		End		
Item	Vegetatio	n		37.6849	88°	37.684988 °		
пеш				-121.2083	66°	-121.208366 °		
DWR ID	DWR_RD2	031_01_s _ 201	6_43					
		Comn	nent Cod	de				
V2 : Remove the wild growth other than native grasses from the levee slopes.								
	Inspector Comment							

View of the tall vegetation on the landside levee slope and toe.



Photo 1 of 1: FA_2016_RD2031_307_43_20160914_00024.jpg

LM Start	5.30	Rating **	Α	Issue No.		49		
LM End	5.65	Issue Type +	Ma	Location *		LS		
Category	Earthen L	evee		GPS Latitude/Longitude				
Calegory				Start		End		
Item	Vegetatio	n		37.6783	47°	37.673308°		
item				-121.217366 °		-121.217693 °		
DWR ID	DWR_RD2	031_01_f _ 201	6_49					
		Comn	nent Cod	de				
V1 : Contro easements		rass and wee	ds on th	e levee slo	pes a	and		
Inspector Comment								
Good vegetation maintenance by LMA.								
Sood Togotation Maintonalise by Elimit.								



View of acceptable vegetation control on the levee slope.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	10/20/2016 10/20/2016	Maksim Khashchuk

LM Start	6.27	Rating **	М	Issue No.	56		
LM End	6.27	Issue Type +	Ma	Location *		WS	
Category	Earthen L	evee		GPS Latitude/Longitude			
Calegory				Start		End	
Item	Encroachi	ments		37.6689	79°	37.668979°	
item	-121.225766 ° -121.22576					-121.225766°	
DWR ID	DWR ID DWR_RD2031_01_f _ 2016_56						
		Comn	nent Cod	de			
TR : Tree	or limb						
		Inspecto	or Comm	nent			
		•					



View of the broken tree limb on the levee slope.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	5.98	10/20/2016 10/20/2016	Maksim Khashchuk

LM Start	0.46	Rating **	Α	Issue No.		16		
LM End	0.76	Issue Type +	Ma	Location *		LS		
Category	Earthen L	evee		GPS Latitude/Longitude				
Calegory				Start		End		
Item	n		37.6556	679°	37.653843°			
пеш				-121.2344	110°	-121.229365°		
DWR ID	DWR ID DWR_RD2031_02_f _ 2016_16							
		Comn	nent Cod	de				
V1 : Contro easements		rass and wee	ds on th	e levee slo	pes a	and		
		Inspecto	or Comm	nent				
No unwant	No unwanted vegetation on levee slope.							



View of acceptable vegetation control on the levee slope.

LM Start	1.41	Rating **	С	Issue No.		15	
LM End	1.41	Issue Type +	Ma	Location *		LS	
Catagory	Earthen L	evee		GPS La	atitud	e/Longitude	
Category				Start		End	
Item	Trim / Thi	n Trees		37.6480	80°	37.648080°	
пеш	-121.221031 ° -121.22				-121.221031 °		
DWR ID	DWR_RD2	031_02_s _ 201	3_15			·	
		Comn	nent Cod	de			
T1 : Trim t	rees to at	least five feet	above g	round level.			
Inspector Comment							

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	5.98	10/20/2016 10/20/2016	Maksim Khashchuk

LM Start	1.42	Rating **	A/W	Issue No.		965
LM End	1.46	Issue Type +	Ma	Location *		LS
Catagory	evee	GPS La	atitud	le/Longitude		
Category				Start		End
Itom	Vegetatio	n		37.6480	05°	37.647476°
Item -121.2						-121.220766°
DWR ID DWR_RD2031_02_s _ 2012_965						
		_				

Comment Code

V2 : Remove the wild growth other than native grasses from the levee slopes.

Inspector Comment

Wild rose bush on landside slope. LMA mowed the shrubs in fall 2016. Site must be maintained or shrubs will grow back.

LM Start	1.42	Rating **	A/W	Issue No.	965 (cont)
LM End	1.46	Issue Type +	Ma	Location *	LS



View of wild rose emerging on levee slope. Fall 2016.

Photo 2 of 2: FA_2016_RD2031_308_965_20160914_00010.jpg



Wild rose on levee slope.

Photo 1 of 1: FA_2016_RD2031_308_25_20160914_00008.jpg

LM Start	2.01	Rating **	М	Issue No.		25	
LM End	2.01	Issue Type +	Ма	Location *		LS	
Category	Earthen L	evee		GPS La	atitud	e/Longitude	
Calegory				Start		End	
Item	Trim / Thi	n Trees		37.6408	874°	37.640874°	
пеш	-121.223870 ° -121.22				-121.223870°		
DWR ID	DWR_RD2	031_02_f _ 201	4_25			·	
		Comn	nent Cod	de			
T1 : Trim t	rees to at l	east five feet	above g	round level			
	Inspector Comment						



View of the overgrown tree obstructing visibility and access of the landside levee slope.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	5.98	10/20/2016 10/20/2016	Maksim Khashchuk

LM Start	2.14	Rating **	М	Issue No.		21	
LM End	2.14	Issue Type +	Ma	Location *		CR	
Category	evee		GPS La	atitud	le/Longitude		
Category	Category					End	
Itom	ltem Vegetation				32°	37.640632 °	
пеш					39°	-121.221539°	
DWR ID	DWR ID DWR_RD2031_02_f _ 2014_21						
		Comn	nent Cod	de			
V2 : Remove the wild growth other than native grasses from the levee slopes.							
Inspector Comment							



View of overgrown vegetation on the levee crown.

LM Start	2.97	Rating **	М	Issue No.		966				
LM End	3.57	Issue Type +	Ma	Location *		LS				
Category	Earthen Levee			GPS Latitude/Longitude						
Category				Start		End				
Item	Trim / Thin Trees			37.6376	26°	37.638301°				
item			-121.2071	91 °	-121.196465°					
DWR ID DWR_RD2031_02_s _ 2012_966										
Comment Code										

T1 : Trim trees to at least five feet above ground level.

Inspector Comment

Obstructive trees and vegetation along highway are on the landside slope of the levee.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	5.98	10/20/2016 10/20/2016	Maksim Khashchuk

LM Start	3.84	Rating **	М	Issue No.		17		
LM End	3.84	Issue Type +	Ma	Location *		LS		
Earthen Levee GPS Latitude/Long					e/Longitude			
Category	Category					End		
Slope Stability			37.6379	16°	37.637916°			
пеш	item				95°	-121.191595°		
DWR ID DWR_RD2031_02_f _ 2016_17								
		Comn	nent Cod	de				
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.								
	Inspector Comment							



View of the tire tracks on the levee slope.

LM Start	4.29	Rating **	A/W	Issue No.		1	
LM End	4.33	Issue Type +	Ma	Location *		WS	
Category	Supplemental			GPS Latitude/Longitude			
Calegory			Start		End		
Item	DWR Erosion Survey			37.6317	16°	37.631716°	
item				-121.1893	70°	-121.189370°	
DWR ID						·	

Comment Code

Inspector Comment

07/08/2016: The erosion in the berm was found further progressed toward levee toe.

08/19/2015: No significant change observed.

07/17/2014: The erosion has slightly expanded toward levee toe at two pocket locations.

09/10/2013: The site has been visited. The erosion has expanded toward levee crest at two pocket locations.

07/18/2012: No significant change observed on the site.

08/18/2011: No significant change observed on the site. Dead trees and animal activities are visible. The closest point of the erosion site to the levee toe is about 100 ft.

10/19/2010: There is active scouring occurring on the bank due to the nature of the flow and the lack of armor protection. There is also a fallen log immediately downstream of where the erosion has occurred and is protruding outward, possibly creating an eddy and scouring the bank. With the remaining 100-foot wide berm, the levee prism is not yet affected. However, the bank will continue to degrade, and eventually intrude into the levee prism if no protection is put in place. Erosion site is recommended for annual assessment and monitoring during flood events. [2016 Site ID:RD2031U02RM78.7]

Photo 1 of 3: SJR2016_RD2031U02RM78.7_1.jpg



Looking downstream of the erosion site.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	5.98	10/20/2016 10/20/2016	Maksim Khashchuk

LM Start	4.29	Rating **	A/W	Issue No.		1 (cont)	
LM End	4.33	Issue Type +	Ma	Location *		WS	
Category				GPS Latitude/Longitude			
Calegory			Start		End		
Item	sion Survey	n Survey		'16 °	37.631716		
item			-121.1893	70°	-121.189370		
DWR ID							

Comment Code

Inspector Comment

07/08/2016: The erosion in the berm was found further progressed toward levee toe.

08/19/2015: No significant change observed.

07/17/2014: The erosion has slightly expanded toward levee toe at two pocket locations.

09/10/2013: The site has been visited. The erosion has expanded toward levee crest at two pocket locations.

07/18/2012: No significant change observed on the site.

08/18/2011: No significant change observed on the site. Dead trees and animal activities are visible. The closest point of the erosion site to the levee toe is about 100 ft.

10/19/2010: There is active scouring occurring on the bank due to the nature of the flow and the lack of armor protection. There is also a fallen log immediately downstream of where the erosion has occurred and is protruding outward, possibly creating an eddy and scouring the bank. With the remaining 100-foot wide berm, the levee prism is not yet affected. However, the bank will continue to degrade, and eventually intrude into the levee prism if no protection is put in place. Erosion site is recommended for annual assessment and monitoring during flood events. [2016 Site ID:RD2031U02RM78.7]

LM Start	4.29	Rating **	A/W	Issue No.	1 (cont)
LM End	4.33	Issue Type +	Ma	Location *	WS

Photo 2 of 3: SJR2016_RD2031U02RM78.7_3.jpg



Close view of the pocket erosion.

Photo 3 of 3: SJR2016_RD2031U02RM78.7_4.jpg



Close view of the erosion.